

290 300 310 320 330 340 350 360
LHSLSCVVFVFMAYIMLCRKTSQGEHYEBAAHAREANDSGETNRVAIFASGSSDEPTSONLGNNSYDE
LHSLSCVVFVFMAYIMLCRKTSQGEHYEBAAR
290 300 310 320
PCIBQBYQIIAQINGNVARLDTVPIDYEFLEATEGKSVK
370 380 390

2. US-10-633-008-32 (1-399)
US-10-633-008-33 Sequence 33, Application US/10633008

Sequence 33, Application US/10633008
GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Pong, Sherman
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Napier, Mary A.
APPLICANT: Tumas, Daniel
APPLICANT: Van Lookren, Menno
APPLICANT: Wood, William I.
TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
FILE REFERENCE: 39766/0100P1
CURRENT APPLICATION NUMBER: US/10/633,008
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US/10/265,542
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US/09/254,465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 33
LENGTH: 305
TYPE: PRT
ORGANISM: Homo sapiens

Initial Score = 284 Optimized Score = 193 Significance = 0.41
Residue Identity = 62% Matches = 204 Mismatches = 89
Gaps = 36 Conservative Substitutions = 0

MGILLGLLGLHLYVDYGRPILEVESVYGPWKGDVNLPCYDPLQGYTOVLVKWLVORSGSDPVTIFLRDS
80 X 90 100 110 120 130 140
SGDHIQQAQYQGRRLHSHVPGDVSLQSLTEMDRSHYTCV-TWQTFDGNVAVDKIT-ELRVQKLSVS
X MGILLGLLGLHLYVDYGRPILEVESVYGPWKGDVNLPCYDPLQGYTOVL
10 20 30 40 50 60 70
KPTVYTGSGYGFVPGQMRISLQCAQAGSPPISYIMYKQNTNOBPIK-----ATLSTLLFRPAVIADSGS
KWLVRGS-----DPVTIFL-----RDSGDIQQAQYQGRRLHSHVPGDVSLQSLTE-----EMDRSH
60 70 80 90 100 110
210 220 230 240 250 260 270
YFC--TAGQVSEBQSD-IVK-FVVKSSSKLKTETAPPTMTYPLKATSTYKQSDWTTMDGILGETSA
YTCVETWQTPDNOVVRDITELRVQKSSKLKTETAPPTMTYPLKATSTYKQSDWTTMDGILGETSA
120 130 140 150 160 170 180
280 290 300 310 320 330 340
GPGKSLPVPAILIILSLCCMVVFVFMAYIMLCRKTSQGEHYEBAAHAREANDSGETNRVAIFASGSSDEP

350 360 370 380 390 X
TSOINLGNNSDEPCIGQBYQIIAQINGNVARLDTVPIDYEFLEATEGKSVK
GPGKSLPVPAILIILSLCCMVVFVFMAYIMLCRKTSQGEHYEBAAHAREANDSGETNRVAIFASGSSDEP
190 200 210 220 230 240 250
TSOINLGNNSDEPCIGQBYQIIAQINGNVARLDTVPIDYEFLEATEGKSVK
260 270 280 290 300 X

3. US-10-633-008-32 (1-399)
US-10-633-008-34 Sequence 34, Application US/10633008

Sequence 34, Application US/10633008
GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Pong, Sherman
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Napier, Mary A.
APPLICANT: Tumas, Daniel
APPLICANT: Van Lookren, Menno
APPLICANT: Wood, William I.
TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
FILE REFERENCE: 39766/0100P1
CURRENT APPLICATION NUMBER: US/10/633,008
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US/10/265,542
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US/09/254,465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 34
LENGTH: 280
TYPE: PRT
ORGANISM: Mus musculus

Initial Score = 108 Optimized Score = 128 Significance = -1.13
Residue Identity = 44% Matches = 137 Mismatches = 129
Gaps = 42 Conservative Substitutions = 0

MGILLGLLGLHLYVDYGRPILEVESVYGPWKGDVNLPCYDPLQGYTOVLVKWLVORSGSDPVTIFLRDS
X MGILLGLLGLHLYVDYGRPILEVESVYGPWKGDVNLPCYDPLQGYTOVLVKWLVORSGSDPVTIFLRDS
10 20 30 40 50 60 70
SGDHIQQAQYQGRRLHSHVPGDVSLQSLTEMDRSHYTCV-TWQTFDGNVAVDKIT-ELRVQKLSVS
X MGILLGLLGLHLYVDYGRPILEVESVYGPWKGDVNLPCYDPLQGYTOVLVKWLVORSGSDPVTIFLRDS
10 20 30 40 50 60 70
KPTVYTGSGYGFVPGQMRISLQCAQAGSPPISYIMYKQNTNOBPIK-----ATLSTLLFRPAVIADSGS
KWLVRGS-----DPVTIFL-----RDSGDIQQAQYQGRRLHSHVPGDVSLQSLTE-----EMDRSH
140 150 160 170 180 190 200
210 220 230 240 250 260 270
AUGSGYFCYAKGVSEBQSD-IVK-FVVKSSSKLKTETAPPTMTYPLKAT-STYKQSDWTTMDGILGET
-----RCKTFQGEYVYGV--RVFARKTS-----NSBETTRVT--TITADPDSDALISYSDPCLSQE

Tue May 3 05:54:45 2005

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	220	230	240	250	260
280	290	300	310	320	330
SAGPEKSLPVEPAIIILISLCMVVFVTMAVYIMLCRKTSQOEHYEAARAHAREANDSGETMRVAIVAFSGCSD					
YQITTR-----TMSIPAC					
270	280				
350	360	370	380	390	
EPTEGNLNNYSDEPCIGOEYQIIAQINGVYARLDVPLDYIEFLATEGKSYC					

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```
/ Sequence 32, Application US/10633008
/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi J.
/ APPLICANT: Fong, Sherman
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Napier, Mary A.
/ APPLICANT: Tumes, Daniel
/ APPLICANT: Van Lookren, Menno
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
/ FILE REFERENCE: 39766/0100P1
/ CURRENT APPLICATION NUMBER: US/10/633,008
/ CURRENT FILING DATE: 2003-07-31
/ PRIOR APPLICATION NUMBER: US/10/265,542
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: PCT/US00/04414
/ PRIOR FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: PCT/US00/14042
/ PRIOR FILING DATE: 2000-05-22
/ PRIOR APPLICATION NUMBER: PCT/US00/32678
/ PRIOR FILING DATE: 2000-12-01
/ PRIOR APPLICATION NUMBER: US/09/254,465
/ PRIOR FILING DATE: 1999-03-05
/ PRIOR APPLICATION NUMBER: PCT/US99/05028
/ PRIOR FILING DATE: 1999-03-08
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 32
/ LENGTH: 399
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-633-008-32
/ MGILLGLLLGLTLVDTYGRPILEVPEESVTGPMKGDVNLBCTYDPLQGYTOVLKWLVRGSDPVTIFLR
/ DSGGDHIOAKYGRGLHVSXKVGSDVLSLOLSTLMDRSHYTCVMTQPDGNOVYRDKITTELRYOKLSY
/ SKPTVTGSGYGTVOQMRHISLOCCQRSGSPYSITWYKQINNOEFIRKATLSTLLFKPAVYADSGSYF
/ CTAKGVSGEQHSDIVKFPVVKDSSKLKTKTEAPTTWYLPKATSTVKOSDWMTTMDGYLGESTAGPGK
/ SLVPFALIDLIISICWVVFMTAYIMLCRKTSQOEHYEAAARAAREANDSGFTMRVAIFASGCSDEPTS
/ ONLGNNYSDEPCIGGEYQIIAQINGVYARLDTVPLDYEFLETEGKSVCL
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```
/ Sequence 2, Application US/10633008
/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi J.
/ APPLICANT: Fong, Sherman
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Napier, Mary A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Van Lookren, Menno
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
/ FILE REFERENCE: 39766/0100P1
/ CURRENT APPLICATION NUMBER: US/10/633,008
/ CURRENT FILING DATE: 2003-07-31
/ PRIOR APPLICATION NUMBER: US/10/265,542
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: PCT/US00/04414
/ PRIOR FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: PCT/US00/14042
/ PRIOR FILING DATE: 2000-05-22
/ PRIOR APPLICATION NUMBER: PCT/US00/32678
/ PRIOR FILING DATE: 2000-12-01
/ PRIOR APPLICATION NUMBER: US/09/254,465
/ PRIOR FILING DATE: 1999-03-05
/ PRIOR APPLICATION NUMBER: PCT/US99/05028
/ PRIOR FILING DATE: 1999-03-08
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FaastSeq for Windows Version 4.0
/ SEQ ID NO 2
/ LENGTH: 321
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ MGILLGLLGLHGLTVDTYGGPILEVEPSVTGPMKGDVNLPCYDPLQGYTOULVKMLVORGSDPVTIELR
/ DSSGDHIOQAKYGRHLVSHKVGSDVLSQISTLEMDDRSHTCEVTQOTPDGQVVRDXTIELRVQKLSV
/ SKPTVTSYGTFVQGMKLSIQCCRGSPISYTWYKQOTNNQEPITKVAITLSTLFFKPAVLADSGSYF
/ CTAKGVGSEQHDIVKFPVKDSKSLKRTKEAFTTWTYPLKATSTVKQSDMTTMDGYLGTSAGPGK
/ SLVPFAIILIIISLCMVVFTMAIYIMLCRKTSQOEHYEAR1
```

```
/ Sequence 33, Application US/10633008
/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi J.
/ APPLICANT: Fong, Sherman
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Napier, Mary A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Van Lookren, Menno
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
/ FILE REFERENCE: 39766/0100P1
/ CURRENT APPLICATION NUMBER: US/10/633,008
/ CURRENT FILING DATE: 2003-07-31
/ PRIOR APPLICATION NUMBER: US/10/265,542
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: PCT/US00/04414
/ PRIOR FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: PCT/US00/14042
/ PRIOR FILING DATE: 2000-05-22
/ PRIOR APPLICATION NUMBER: PCT/US00/32678
/ PRIOR FILING DATE: 2000-12-01
/ PRIOR APPLICATION NUMBER: US/09/254,465
/ PRIOR FILING DATE: 1999-03-05
/ PRIOR APPLICATION NUMBER: PCT/US99/05028
/ PRIOR FILING DATE: 1999-03-08
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: FaastSeq for Windows Version 4.0
/ SEQ ID NO 33
/ LENGTH: 305
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-633-008-33
/ MGILLGLLGLHGLTVDTYGGPILEVEPSVTGPMKGDVNLPCYDPLQGYTOULVKMLVORGSDPVTIELR
/ DSSGDHIOQAKYGRHLVSHKVGSDVLSQISTLEMDDRSHTCEVTQOTPDGQVVRDXTIELRVQKLSV
/ SKPTVTSYGTFVQGMKLSIQCCRGSPISYTWYKQOTNNQEPITKVAITLSTLFFKPAVLADSGSYF
/ CTAKGVGSEQHDIVKFPVKDSKSLKRTKEAFTTWTYPLKATSTVKQSDMTTMDGYLGTSAGPGKSLVPFAIILIIISLCMVVFTMAIYI
/ MLCRKTSQOEHYEARAHAREANDSGETWRAIFASGSSDEPTSONLGNNSDEPCIOQEYOIINQIN
/ GNYARLIDTVPLDYEFLATGKSCVCI
```

```
; Sequence 34, Application US/10633008
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Fong, Sherman
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin L.
; APPLICANT: Napier, Mary A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Van Lookren, Menno
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
; FILE REFERENCE: 39766/0100P1
; CURRENT APPLICATION NUMBER: US/10/633,008
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/10/265,542
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US/09/254,465
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: PCT/US99/05028
; PRIOR FILING DATE: 1999-03-08
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34
; LENGTH: 280
; TYPE: PRT
; ORGANISM: Mus musculus
; US-10-633-008-34
MEISSGLFLFGHILVLYGHPILKTPESVYGTWKGDKVLCIYDPLRGYROVLVKMLVRHGSQSVTIFLR
DSYGDHIOAKXGRGLKSHKVGADVSIQNTIQMDNRNHYTCEVTWQPDGNQVIRDKTIELRVRKYNP
PRINTAPPTIHSLATITMSSTSDITNGTGKLEETINGSGRNLPIFAIIPTISICCTVAATIPYILF
KCRTFQOEYVGVSRVARKTNSSEETRVTTIATDEPDSQALISDYSDPCLSQEYQITIRSTMSIPACL
```